

Lian Zhang

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166
papers

3,721
citations

35
h-index

50
g-index

168
ext. papers

4,448
ext. citations

6.7
avg, IF

5.83
L-index

#	Paper	IF	Citations
166	Spatially isolating salt crystallisation from water evaporation for continuous solar steam generation and salt harvesting. <i>Energy and Environmental Science</i> , 2019 , 12, 1840-1847	35.4	198
165	In situ diagnostics of Victorian brown coal combustion in O ₂ /N ₂ and O ₂ /CO ₂ mixtures in drop-tube furnace. <i>Fuel</i> , 2010 , 89, 2703-2712	7.1	95
164	Study on the species of heavy metals in MSW incineration fly ash and their leaching behavior. <i>Fuel Processing Technology</i> , 2016 , 152, 108-115	7.2	89
163	Influence of coal particle size on particulate matter emission and its chemical species produced during coal combustion. <i>Fuel Processing Technology</i> , 2004 , 85, 1065-1088	7.2	86
162	Inhibition of lignite ash slagging and fouling upon the use of a silica-based additive in an industrial pulverised coal-fired boiler. Part 1. Changes on the properties of ash deposits along the furnace. <i>Fuel</i> , 2015 , 139, 720-732	7.1	80
161	An investigation of the causes of the difference in coal particle ignition temperature between combustion in air and in O ₂ /CO ₂ . <i>Fuel</i> , 2010 , 89, 3381-3387	7.1	80
160	Formation of submicron particulate matter (PM ₁) during coal combustion and influence of reaction temperature. <i>Fuel</i> , 2006 , 85, 1446-1457	7.1	80
159	Ash deposition and slagging behavior of Chinese Xinjiang high-alkali coal in 3 MWth pilot-scale combustion test. <i>Fuel</i> , 2016 , 181, 1191-1202	7.1	76
158	A Critical Review of Coal Demineralization and Its Implication on Understanding the Speciation of Organically Bound Metals and Submicrometer Mineral Grains in Coal. <i>Energy & Fuels</i> , 2011 , 25, 1-16	4.1	72
157	Noble-metal single-atoms in thermocatalysis, electrocatalysis, and photocatalysis. <i>Energy and Environmental Science</i> , 2021 , 14, 2954-3009	35.4	64
156	Emission of suspended PM ₁₀ from laboratory-scale coal combustion and its correlation with coal mineral properties. <i>Fuel</i> , 2006 , 85, 194-203	7.1	60
155	Speciation transformation of arsenic during municipal solid waste incineration. <i>Proceedings of the Combustion Institute</i> , 2015 , 35, 2883-2890	5.9	59
154	Characteristics of Ash Deposits in a Pulverized Lignite Coal-Fired Boiler and the Mass Flow of Major Ash-Forming Inorganic Elements. <i>Energy & Fuels</i> , 2013 , 27, 6198-6211	4.1	56
153	Transformation of mineral and emission of particulate matters during co-combustion of coal with sewage sludge. <i>Fuel</i> , 2004 , 83, 751-764	7.1	56
152	A sunlight-responsive metal-organic framework system for sustainable water desalination. <i>Nature Sustainability</i> , 2020 , 3, 1052-1058	22.1	53
151	An enhanced approach for biochar preparation using fluidized bed and its application for H ₂ S removal. <i>Chemical Engineering and Processing: Process Intensification</i> , 2016 , 104, 1-12	3.7	52
150	Sequestration of carbon dioxide by indirect mineralization using Victorian brown coal fly ash. <i>Journal of Hazardous Materials</i> , 2012 , 209-210, 458-66	12.8	51

149	Enhancement of desalination performance of thin-film nanocomposite membrane by cellulose nanofibers. <i>Journal of Membrane Science</i> , 2019 , 592, 117363	9.6	50
148	Effects of coal blending on the reduction of PM10 during high-temperature combustion 1. Mineral transformations. <i>Fuel</i> , 2008 , 87, 2997-3005	7.1	50
147	Computational Fluid Dynamics Modeling on the Air-Firing and Oxy-fuel Combustion of Dried Victorian Brown Coal. <i>Energy & Fuels</i> , 2013 , 27, 4258-4269	4.1	49
146	Microwave digestion for the quantification of inorganic elements in coal and coal ash using ICP-OES. <i>Talanta</i> , 2012 , 101, 346-52	6.2	47
145	CCSEM analysis of ash from combustion of coal added with limestone. <i>Fuel</i> , 2002 , 81, 1499-1508	7.1	47
144	The chemical role of CO ₂ in pyrite thermal decomposition. <i>Proceedings of the Combustion Institute</i> , 2015 , 35, 3637-3644	5.9	44
143	High-Speed Camera Observation of Coal Combustion in Air and O ₂ /CO ₂ Mixtures and Measurement of Burning Coal Particle Velocity. <i>Energy & Fuels</i> , 2010 , 24, 29-37	4.1	44
142	Artificial neural networks with response surface methodology for optimization of selective CO ₂ hydrogenation using K-promoted iron catalyst in a microchannel reactor. <i>Journal of CO₂ Utilization</i> , 2018 , 24, 10-21	7.6	40
141	Influence of woody biomass (cedar chip) addition on the emissions of PM10 from pulverised coal combustion. <i>Fuel</i> , 2011 , 90, 77-86	7.1	40
140	Effects of HCl, SO ₂ and H ₂ O in flue gas on the condensation behavior of Pb and Cd vapors in the cooling section of municipal solid waste incineration. <i>Proceedings of the Combustion Institute</i> , 2011 , 33, 2787-2793	5.9	40
139	In-situ observation of the combustion of air-dried and wet Victorian brown coal. <i>Proceedings of the Combustion Institute</i> , 2011 , 33, 1739-1746	5.9	40
138	Occurrence of Inorganic Elements in Condensed Volatile Matter Emitted from Coal Pyrolysis and Their Contributions to the Formation of Ultrafine Particulates during Coal Combustion. <i>Energy & Fuels</i> , 2006 , 20, 1482-1489	4.1	38
137	Elucidating the mechanism of Cr(VI) formation upon the interaction with metal oxides during coal oxy-fuel combustion. <i>Journal of Hazardous Materials</i> , 2013 , 261, 260-8	12.8	37
136	Use of synchrotron XANES and Cr-doped coal to further confirm the vaporization of organically bound Cr and the formation of chromium(VI) during coal oxy-fuel combustion. <i>Environmental Science & Technology</i> , 2012 , 46, 3567-73	10.3	37
135	Indirect Carbonation of Victorian Brown Coal Fly Ash for CO ₂ Sequestration: Multiple-Cycle Leaching-Carbonation and Magnesium Leaching Kinetic Modeling. <i>Energy & Fuels</i> , 2014 , 28, 6481-6493	4.1	36
134	Synchrotron-based XANES speciation of chromium in the oxy-fuel fly ash collected from lab-scale drop-tube furnace. <i>Environmental Science & Technology</i> , 2011 , 45, 6640-6	10.3	36
133	Integration of pyrolysis and entrained-bed gasification for the production of chemicals from Victorian brown coal. Process simulation and exergy analysis. <i>Fuel Processing Technology</i> , 2017 , 155, 21-31	7.2	35
132	Computer-Controlled Scanning Electron Microscopy (CCSEM) Investigation on the Heterogeneous Nature of Mineral Matter in Six Typical Chinese Coals. <i>Energy & Fuels</i> , 2007 , 21, 468-476	4.1	35

131	Preparation of steam activated carbon from black liquor by flue gas precipitation and its performance in hydrogen sulfide removal: Experimental and simulation works. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2016 , 59, 395-404	5.3	33
130	Fischer-Tropsch synthesis in a microchannel reactor using mesoporous silica supported bimetallic Co-Ni catalyst: Process optimization and kinetic modeling. <i>Chemical Engineering and Processing: Process Intensification</i> , 2017 , 119, 44-61	3.7	33
129	Generation of ultra-clean coal from Victorian brown coal by sequential and single leaching at room temperature to elucidate the elution of individual inorganic elements. <i>Fuel Processing Technology</i> , 2011 , 92, 2127-2137	7.2	33
128	Fischer-Tropsch synthesis using iron based catalyst in a microchannel reactor: Performance evaluation and kinetic modeling. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 29222-29235	6.7	32
127	RuCo alloy bimodal nanoparticles embedded in N-doped carbon: a superior pH-universal electrocatalyst outperforms benchmark Pt for the hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 12810-12820	13	31
126	Pilot-scale experimental and CFD modeling investigations of oxy-fuel combustion of Victorian brown coal. <i>Fuel</i> , 2015 , 144, 111-120	7.1	31
125	Influence of inherent moisture on the ignition and combustion of wet Victorian brown coal in air-firing and oxy-fuel modes: Part 1: The volatile ignition and flame propagation. <i>Fuel Processing Technology</i> , 2015 , 138, 670-679	7.2	30
124	Transformation of phosphorus during combustion of coal and sewage sludge and its contributions to PM10. <i>Proceedings of the Combustion Institute</i> , 2007 , 31, 2847-2854	5.9	30
123	Acid hydrolysis of corn stover using hydrochloric acid: Kinetic modeling and statistical optimization. <i>Chemical Industry and Chemical Engineering Quarterly</i> , 2014 , 20, 531-539	0.7	29
122	Inhibition of lignite ash slagging and fouling upon the use of a silica-based additive in an industrial pulverised coal-fired boiler: Part 2. Speciation of iron in ash deposits and separation of magnetite and ferrite. <i>Fuel</i> , 2015 , 139, 733-745	7.1	28
121	Numerical Modeling and Experimental Investigation on the Use of Brown Coal and Its Beneficiated Semicoke for Coal Blending Combustion in a 600 MWe Utility Furnace. <i>Energy & Fuels</i> , 2015 , 29, 1196-1209	4.1	28
120	Ash partitioning during the oxy-fuel combustion of lignite and its dependence on the recirculation of flue gas impurities (H ₂ O, HCl and SO ₂). <i>Fuel</i> , 2011 , 90, 2207-2216	7.1	28
119	Interactions among Inherent Minerals during Coal Combustion and Their Impacts on the Emission of PM10. 1. Emission of Micrometer-Sized Particles. <i>Energy & Fuels</i> , 2007 , 21, 756-765	4.1	28
118	Characteristics of high temperature C-CO ₂ gasification reactivity of Victorian brown coal char and its blends with high ash fusion temperature bituminous coal. <i>Fuel</i> , 2017 , 202, 352-365	7.1	27
117	A study on the calcination and sulphation behaviour of limestone during oxy-fuel combustion. <i>Fuel</i> , 2012 , 102, 386-395	7.1	27
116	Effect of HCl, SO ₂ and H ₂ O on the condensation of heavy metal vapors in flue gas cooling section. <i>Fuel Processing Technology</i> , 2013 , 105, 181-187	7.2	27
115	Preparation of high performance H ₂ S removal biochar by direct fluidized bed carbonization using potato peel waste. <i>Chemical Engineering Research and Design</i> , 2017 , 107, 281-288	5.5	26
114	Effect of coal blending on the leaching characteristics of arsenic in fly ash from fluidized bed coal combustion. <i>Fuel Processing Technology</i> , 2013 , 106, 769-775	7.2	26

113	Mineral carbonation of Victorian brown coal fly ash using regenerative ammonium chloride □ Process simulation and techno-economic analysis. <i>Applied Energy</i> , 2016 , 175, 54-68	10.7	25
112	Influence of steam on ignition of Victorian brown coal particle stream in oxy-fuel combustion: In-situ diagnosis and transient ignition modelling. <i>Fuel</i> , 2016 , 181, 1203-1213	7.1	25
111	Arsenic emissions and speciation in the oxy-fuel fly ash collected from lab-scale drop-tube furnace. <i>Proceedings of the Combustion Institute</i> , 2013 , 34, 2877-2884	5.9	25
110	In situ desulfurization during combustion of high-sulfur coals added with sulfur capture sorbents. <i>Fuel</i> , 2003 , 82, 255-266	7.1	25
109	Ash Agglomeration and Deposition during Combustion of Poultry Litter in a Bubbling Fluidized-Bed Combustor. <i>Energy & Fuels</i> , 2013 , 27, 4684-4694	4.1	24
108	Effects of coal blending on the reduction of PM10 during high-temperature combustion 2. A coalescence-fragmentation model. <i>Fuel</i> , 2009 , 88, 150-157	7.1	24
107	Partitioning of Boron during the Generation of Ultraclean Fuel (HyperCoal) by Solvent Extraction of Coal. <i>Energy & Fuels</i> , 2008 , 22, 1183-1190	4.1	24
106	Investigating the Effect of the Mg ²⁺ /Ca ²⁺ Molar Ratio on the Carbonate Speciation during the Mild Mineral Carbonation Process at Atmospheric Pressure. <i>Energy & Fuels</i> , 2015 , 29, 7483-7496	4.1	23
105	Catalytic performance of scrap tyre char for the upgrading of eucalyptus pyrolysis derived bio-oil via cracking and deoxygenation. <i>Journal of Analytical and Applied Pyrolysis</i> , 2019 , 139, 167-176	6	23
104	Sensitivity analysis of oxy-fuel power plant system. <i>Energy Conversion and Management</i> , 2015 , 98, 138-150.6	10.6	21
103	Effect of inorganic particulates on the condensation behavior of lead and zinc vapors upon flue gas cooling. <i>Proceedings of the Combustion Institute</i> , 2013 , 34, 2821-2829	5.9	21
102	Generation of ultra-clean fuel from Victorian brown coal □ Synchrotron XANES study on the evolution of sulphur in Victorian brown coal upon hydrothermal upgrading treatment and thermal pyrolysis. <i>Fuel</i> , 2012 , 99, 217-225	7.1	21
101	HCN and NH ₃ formation during coal/char gasification in the presence of NO. <i>Environmental Science & Technology</i> , 2010 , 44, 3719-23	10.3	21
100	Techno-economic analysis of gasification routes for ammonia production from Victorian brown coal. <i>Chemical Engineering Research and Design</i> , 2015 , 102, 57-68	5.5	20
99	Kinetics underpinning the C-CO ₂ gasification of waste tyre char and its interaction with coal char upon co-gasification. <i>Fuel</i> , 2019 , 256, 115991	7.1	20
98	Effect of magnesium additives on PM _{2.5} reduction during pulverized coal combustion. <i>Fuel Processing Technology</i> , 2013 , 105, 188-194	7.2	20
97	Combustibility of dried sewage sludge and its mineral transformation at different oxygen content in drop tube furnace. <i>Fuel Processing Technology</i> , 2004 , 85, 983-1011	7.2	20
96	Ash deposition behaviours upon the combustion of low-rank coal blends in a 3 MW th pilot-scale pulverised coal-fired furnace. <i>Fuel Processing Technology</i> , 2016 , 152, 176-182	7.2	20

95	Experimental Investigation of the Combustion of Bituminous Coal in Air and O ₂ /CO ₂ Mixtures: 1. Particle Imaging of the Combustion of Coal and Char. <i>Energy & Fuels</i> , 2010 , 24, 4803-4811	4.1	19
94	Generation of Ultra-Clean Coal from Victorian Brown Coal: Effect of Hydrothermal Treatment and Particle Size on Coal Demineralization and the Extraction Kinetic of Individual Metals. <i>Energy & Fuels</i> , 2012 , 26, 5028-5035	4.1	18
93	Experimental investigation of the combustion of bituminous coal in air and O ₂ /CO ₂ mixtures: 2. Variation of the transformation behaviour of mineral matter with bulk gas composition. <i>Fuel</i> , 2011 , 90, 1361-1369	7.1	18
92	Interactions among Inherent Minerals during Coal Combustion and Their Impacts on the Emission of PM ₁₀ . 2. Emission of Submicrometer-Sized Particles. <i>Energy & Fuels</i> , 2007 , 21, 766-777	4.1	18
91	Xinjiang lignite ash slagging and flow under the weak reducing environment at 1300 °C [Release of sodium out of slag and its modelling from the mass transfer perspective. <i>Fuel Processing Technology</i> , 2018 , 170, 32-43	7.2	18
90	Energy Evaluation and Techno-economic Analysis of Low-Rank Coal (Victorian Brown Coal) Utilization for the Production of Multi-products in a Drying/Pyrolysis Process. <i>Energy & Fuels</i> , 2018 , 32, 3211-3224	4.1	17
89	Characteristics of high temperature co-gasification and ash slagging for Victorian brown coal char and bituminous coal blends. <i>Fuel</i> , 2018 , 215, 799-812	7.1	17
88	Xinjiang lignite ash slagging and flowability under the weak reducing environment at 1300 °C [A new method to quantify slag flow velocity and its correlation with slag properties. <i>Fuel Processing Technology</i> , 2018 , 171, 173-182	7.2	17
87	Chemical and morphological changes of weathered Victorian brown coal fly ash and its leaching characteristic upon the leaching in ammonia chloride and hydrochloric acid. <i>Hydrometallurgy</i> , 2015 , 157, 22-32	4	16
86	Mineral interactions and their impacts on the reduction of PM ₁₀ emissions during co-combustion of coal with sewage sludge. <i>Proceedings of the Combustion Institute</i> , 2009 , 32, 2701-2708	5.9	16
85	Influence of biomass blends on the particle temperature and burnout characteristics during oxy-fuel co-combustion of coal. <i>Journal of the Energy Institute</i> , 2020 , 93, 1-14	5.7	16
84	Scrap tyre pyrolysis: Modified chemical percolation devolatilization (M-CPD) to describe the influence of pyrolysis conditions on product yields. <i>Waste Management</i> , 2018 , 76, 516-527	8.6	15
83	Hybrid adsorbent prepared from renewable lignin and waste egg shell for SO ₂ removal: Characterization and process optimization. <i>Ecological Engineering</i> , 2018 , 115, 139-148	3.9	15
82	Influence of gaseous SO ₂ and sulphate-bearing ash deposits on the high-temperature corrosion of heat exchanger tube during oxy-fuel combustion. <i>Fuel Processing Technology</i> , 2017 , 167, 193-204	7.2	15
81	Coordination structures of organically bound paramagnetic metals in coal and their transformation upon solvent extraction. <i>Fuel</i> , 2008 , 87, 2628-2640	7.1	15
80	Partitioning of sulfur and calcium during pyrolysis and combustion of high sulfur coals impregnated with calcium acetate as the desulfurization sorbent. <i>Fuel</i> , 2004 , 83, 1039-1053	7.1	15
79	Effect of silica additive on the high-temperature fireside tube corrosion during the air-firing and oxy-firing of lignite (Xinjiang coal) [Characteristics of bulk and cross-sectional surfaces for the tubes. <i>Fuel</i> , 2017 , 187, 68-83	7.1	14
78	Characteristics of iron and sulphur in high-ash lignite (Pakistani lignite) and their influence on long-term T23 tube corrosion under super-critical coal-fired boiler conditions. <i>Fuel</i> , 2020 , 264, 116855	7.1	14

77	Ignitability and combustibility of Yallourn pyrolysis char under simulated blast furnace conditions. <i>Fuel Processing Technology</i> , 2017 , 156, 113-123	7.2	13
76	Fischer-Tropsch synthesis using iron-based catalyst in a microchannel reactor: Hybrid lump kinetic with ANNs/RSM. <i>Chemical Engineering and Processing: Process Intensification</i> , 2017 , 122, 181-189	3.7	13
75	Inhibition of lignite ash slagging and fouling upon the use of a silica-based additive in an industrial pulverised coal-fired boiler: Part 3 Partitioning of trace elements. <i>Fuel</i> , 2015 , 139, 746-756	7.1	13
74	Performance Study of stirred tank slurry reactor and fixed-bed reactor using bimetallic CoNi mesoporous silica catalyst for Fischer-Tropsch synthesis. <i>Environmental Progress and Sustainable Energy</i> , 2018 , 37, 553-561	2.5	13
73	Ignitability and Combustibility of Yallourn Pyrolysis Char Blended with Pulverized Coal Injection Coal under Simulated Blast Furnace Conditions. <i>Energy & Fuels</i> , 2016 , 30, 1858-1868	4.1	13
72	Mechanisms Underpinning the Mobilization of Iron and Magnesium Cations from Victorian Brown Coal Fly Ash. <i>Energy & Fuels</i> , 2014 , 28, 4051-4061	4.1	13
71	Evolution of organically bound metals during coal combustion in air and O ₂ /CO ₂ mixtures: A case study of Victorian brown coal. <i>Proceedings of the Combustion Institute</i> , 2011 , 33, 2795-2802	5.9	13
70	Preparation of carbon sphere from lactose by hydrothermal reaction and its performance in gas separation. <i>Environmental Progress and Sustainable Energy</i> , 2014 , 33, 581-587	2.5	12
69	Characteristics of slag, fly ash and deposited particles during melting of dewatered sewage sludge in a pilot plant. <i>Journal of Environmental Management</i> , 2006 , 79, 163-72	7.9	12
68	High-temperature tube corrosion upon the interaction with Victorian brown coal fly ash under the oxy-fuel combustion condition. <i>Proceedings of the Combustion Institute</i> , 2017 , 36, 3941-3948	5.9	11
67	Selective removal of sodium and calcium from low-rank coal Process integration, simulation and techno-economic evaluation. <i>Fuel Processing Technology</i> , 2018 , 172, 13-28	7.2	11
66	Behavior of Heavy Metals during Fluidized Bed Combustion of Poultry Litter. <i>Energy & Fuels</i> , 2014 , 28, 5158-5166	4.1	11
65	Sequential Leaching of Coal to Investigate the Elution of Inorganic Elements Into Coal Extract (HyperCoal). <i>Energy & Fuels</i> , 2008 , 22, 2474-2481	4.1	11
64	Pyrolysis of a lignite briquette Experimental investigation and 1-dimensional modelling approach. <i>Fuel</i> , 2018 , 212, 533-545	7.1	11
63	Critical Review on the Chemical Reaction Pathways Underpinning the Primary Decomposition Behavior of Chlorine-Bearing Compounds under Simulated Municipal Solid Waste Incineration Conditions. <i>Energy & Fuels</i> , 2020 , 34, 1-15	4.1	10
62	Coal Waste to Two-Dimensional Materials: Fabrication of Fe ₂ O ₃ Nanosheets and MgO Nanosheets from Brown Coal Fly Ash. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 15982-15987	8.3	10
61	High-Efficiency Electrosynthesis of Hydrogen Peroxide from Oxygen Reduction Enabled by a Tungsten Single Atom Catalyst with Unique Terdentate N 1 O 2 Coordination. <i>Advanced Functional Materials</i> , 2021 , 31, 2110224	15.6	10
60	Clarifying the influence of moisture on the ignition and combustion of wet Victorian brown coal in air-firing and oxy-fuel modes: Part 2: Contribution of gasification reaction to char oxidation rate. <i>Fuel Processing Technology</i> , 2015 , 138, 680-686	7.2	9

59	NH ₄ Cl selective leaching of basic oxygen furnace slag: Optimization study using response surface methodology. <i>Environmental Progress and Sustainable Energy</i> , 2016 , 35, 1387-1394	2.5	9
58	Characterization of combustion-derived individual fine particulates by computer-controlled scanning electron microscopy. <i>AIChE Journal</i> , 2009 , 55, 3005-3016	3.6	9
57	Secondary reactions of volatiles upon the influences of particle temperature discrepancy and gas environment during the pyrolysis of scrap tyre chips. <i>Fuel</i> , 2020 , 259, 116291	7.1	9
56	Xinjiang lignite ash slagging and flow under the weak reducing environment at high temperatures □ Slag viscosity and its variation with ash type and addition of clay. <i>Fuel</i> , 2019 , 245, 438-446	7.1	8
55	Chromium Reaction Mechanisms for Speciation using Synchrotron in-Situ High-Temperature X-ray Diffraction. <i>Environmental Science & Technology</i> , 2015 , 49, 8246-53	10.3	8
54	Synthesis of in-situ Al-defected iron oxide nanoflakes from coal ash: A detailed study on the structure, evolution mechanism and application to water remediation. <i>Journal of Hazardous Materials</i> , 2020 , 395, 122696	12.8	8
53	Emission of Organically Bound Elements during the Pyrolysis and Char Oxidation of Lignites in Air and Oxyfuel Combustion Mode. <i>Energy & Fuels</i> , 2014 , 28, 4167-4176	4.1	8
52	Formation of Submicron Particulates (PM ₁) from the Oxygen-Enriched Combustion of Dried Sewage Sludge and Their Properties. <i>Energy & Fuels</i> , 2007 , 21, 88-98	4.1	8
51	Properties of water-soluble and insoluble particulate matter emitted from dewatered sewage sludge incineration in a pilot-scale ash melting furnace. <i>Fuel</i> , 2008 , 87, 964-973	7.1	8
50	Combustion and DeBOx behavior of high-sulfur coals added with calcium acetate produced from biomass pyrolygneous acid. <i>Fuel</i> , 2004 , 83, 2123-2131	7.1	8
49	Hydrochar preparation from black liquor by CO ₂ assisted hydrothermal treatment: Optimization of its performance for Pb ²⁺ removal. <i>Korean Journal of Chemical Engineering</i> , 2016 , 33, 2703-2710	2.8	8
48	An updated acid dew point temperature estimation method for air-firing and oxy-fuel combustion processes. <i>Fuel Processing Technology</i> , 2016 , 154, 204-209	7.2	8
47	Occurrence of Calcium and Magnesium in the Ash from Zhundong Coal Combustion: Emphasis on Their Close Juxtaposition. <i>Energy & Fuels</i> , 2019 , 33, 2556-2564	4.1	8
46	Influence of External Clay and Inherent Minerals on Lignite Optical Ignition and Volatile Flame Propagation in Air-Firing and Oxy-Firing. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 2594-2604	3.9	7
45	XANES Investigation on Sulfur Evolution during Victorian Brown Coal Char Gasification in Oxy-Fuel Combustion Mode. <i>Energy & Fuels</i> , 2012 , 26, 4775-4782	4.1	7
44	Biodiesel production using calcium-based catalyst from venus shell: Modeling of startup production in an industrial reactor. <i>Environmental Progress and Sustainable Energy</i> , 2019 , 38, e13053	2.5	7
43	A critical review of ash slagging mechanisms and viscosity measurement for low-rank coal and bio-slugs. <i>Frontiers in Energy</i> , 2021 , 15, 46-67	2.6	7
42	Selective deoxygenation of biomass volatiles into light oxygenates catalysed by S-doped, nanosized zinc-rich scrap tyre char with in-situ formed multiple acidic sites. <i>Applied Catalysis B: Environmental</i> , 2021 , 282, 119603	21.8	7

41	Establishing a novel and yet simple methodology based on the use of modified inclined plane (M-IP) for high-temperature slag viscosity measurement. <i>Fuel</i> , 2018 , 233, 299-308	7.1	7
40	Preparation of hybrid porous carbon using black liquor lignin impregnated with steelmaking slag and its performance in SO ₂ removal. <i>Environmental Progress and Sustainable Energy</i> , 2017 , 36, 1417-1427	7.5	6
39	CO ₂ mineralization using basic oxygen furnace slag: process optimization by response surface methodology. <i>Environmental Earth Sciences</i> , 2016 , 75, 1	2.9	6
38	Fate of Alkali Elements during Pyrolysis and Combustion of Chinese Coals.. <i>Journal of Chemical Engineering of Japan</i> , 2003 , 36, 759-768	0.8	6
37	Accelerated alkaline activation of peroxydisulfate by reduced rubidium tungstate nanorods for enhanced degradation of bisphenol A. <i>Environmental Science: Nano</i> , 2020 , 7, 3547-3556	7.1	6
36	Oxygen vacant Co ₃ O ₄ in situ embedded on carbon spheres: cooperatively tuning electron transfer for boosted peroxymonosulfate activation. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 16489-16499	13	6
35	Chemical kinetic modeling and parameter sensitivity analysis for the carbonation of Ca ²⁺ and Mg ²⁺ under ambient conditions. <i>Hydrometallurgy</i> , 2017 , 167, 141-152	4	5
34	Biosorption of heavy metals: a case study using potato peel waste	83	159-167
33	Optimization of the preparation of activated carbon from steam activated cornstraw black liquor for phenol removal. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2016 , 11, 594-602	1.3	5
32	Hydrogen Production from a Victorian Brown Coal with in Situ CO ₂ Capture in a 1 kWth Dual Fluidized-Bed Gasification Reactor. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 13046-13053	3.9	4
31	Synthesis of (111) facet-engineered MgO nanosheet from coal fly ash and its superior catalytic performance for high-temperature water gas shift reaction. <i>Applied Catalysis A: General</i> , 2021 , 618, 1181-1192	5.1	4
30	Behavior of Fe ²⁺ / ³⁺ Cation and Its Interference with the Precipitation of Mg ²⁺ Cation upon Mineral Carbonation of Yallourn Fly Ash Leachate under Ambient Conditions. <i>Energy & Fuels</i> , 2016 , 30, 3269-3280	4.1	4
29	Pyrohydrolysis of CaCl ₂ Waste for the Recovery of HCl Acid upon the Synergistic Effects from MgCl ₂ and Silica. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 3349-3355	8.3	4
28	Reductive Leaching of Iron and Magnesium out of Magnesioferrite from Victorian Brown Coal Fly Ash. <i>Energy & Fuels</i> , 2016 ,	4.1	3
27	Elution of Ti during solvent extraction of coal and the transformation of eluted Ti upon combustion. <i>AIChE Journal</i> , 2008 , 54, 1646-1655	3.6	3
26	Process modeling and techno-economic analysis of a solar thermal aided low-rank coal drying-pyrolysis process. <i>Fuel Processing Technology</i> , 2021 , 220, 106896	7.2	3
25	Robust Hilly Polyamide Membrane for Fast Desalination. <i>ACS Applied Polymer Materials</i> , 2021 , 3, 1070-1077	4.7	3
24	A detailed speciation of iron on FCC catalysts based on an integrated use of advanced characterisation methods and thermodynamic equilibrium simulation. <i>Applied Catalysis A: General</i> , 2020 , 599, 117597	5.1	2

23	The slagging propensity of Zn-rich scrap tyre ash in reducing environments consisting of CO and CO ₂ and its promotion of the slagging of Si-rich coal ash. <i>Proceedings of the Combustion Institute</i> , 2021 , 38, 3939-3947	5.9	2
22	Waste tyre char-catalysed in-situ deoxygenation of volatile vapours and production of hydrogen-rich syngas during the pyrolysis of lignite. <i>Fuel Processing Technology</i> , 2021 , 218, 106872	7.2	2
21	Photo-switchable imprinted adsorbent towards a selective phenol recovery from wastewater. <i>Chemical Engineering Journal</i> , 2021 , 421, 129549	14.7	2
20	Kinetic Study of Long-Term T23 Tube Corrosion upon Low-Rank Coal Ash Deposition under Oxy-Fuel Combustion Conditions. <i>Energy & Fuels</i> , 2019 , 33, 10209-10217	4.1	1
19	Selective Removal of Sodium from Low-Rank Xinjiang Coal upon Multistage Countercurrent Water Washing: Experimental Investigation and Kinetics Modeling. <i>Energy & Fuels</i> , 2019 , 33, 2142-2152	4.1	1
18	Experimental Study on Ash Melting Behavior of Xinjiang High-Alkali Coal Blended with Low-Alkali Coal During Coal Combustion 2016 , 53-58		1
17	Spatial distribution of chromium on the corroded tube surface characterised by synchrotron X-ray fluorescence (SXRF) mapping and EXANES: Co-existence of Ca-rich ash deposits and oxy-firing flue gas. <i>Fuel Processing Technology</i> , 2017 , 167, 31-42	7.2	1
16	Effect of CO conversion upon product distribution using bimetallic Co-Ni mesoporous silica catalyst for Fischer-Tropsch synthesis: a comparative study of fixed-bed reactor and slurry continuous stirred tank reactor. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2017 , 12, 518-526	1.3	1
15	Elucidating the synergistic interaction and reaction pathway between the individual lignocellulosic components during flash pyrolysis. <i>Chemical Engineering Journal</i> , 2022 , 432, 134372	14.7	1
14	Analysis of Coal Ash Build up on Ceramic Filters in a Hot Gas Filtration System. <i>Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy</i> , 2005 , 84, 359-365	0.5	1
13	Non-Destructive characterisation of coke deposit on FCC catalyst and its transient evolution upon Air-Firing and Oxy-Fuel regeneration. <i>Chemical Engineering Journal</i> , 2022 , 430, 132998	14.7	1
12	Can CO and Steam React in the Absence of Electrolysis at High Temperatures?. <i>ChemSusChem</i> , 2020 , 13, 6660-6667	8.3	0
11	Waste to worth: A high-temperature water-gas shift magnetite catalyst with encapsulated core-shell structure from coal fly ash. <i>Fuel Processing Technology</i> , 2022 , 232, 107265	7.2	0
10	Influence of MgO content on bio-ash slagging propensity and flowability under mild reducing environment. <i>Fuel</i> , 2022 , 322, 124207	7.1	0
9	Influence of Coke Heterogeneity and the Interaction between Different Coke Species on the Emission of Toxic HCN and NO _x from FCC Spent Catalyst Regeneration. <i>Journal of Hazardous Materials</i> , 2022 , 129187	12.8	0
8	Analysis of Sensitivity and Optimization Potential for Oxy-Fuel Plant System 2016 , 335-339		
7	Condensation Behavior of Heavy Metal Vapors upon Flue Gas Cooling in Oxy-fuel versus Air Combustion. <i>Journal of Chemical Engineering of Japan</i> , 2015 , 48, 450-457	0.8	
6	Investigation of a direct melting dehydrated sewage sludge pilot plant. <i>International Journal of Environment and Pollution</i> , 2007 , 31, 371	0.7	

- 5 Sintering Behavior of Coal Ash Build up on Ceramic Filters in a Hot Gas Filtration System. *Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy*, **2005**, 84, 767-772 0.5
- 4 Simulation Model for Combustion of Dehydration Sludge in an Ash-Melting Furnace Using Oxygen Enrichment. *Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy*, **2006**, 85, 762-768 0.5
- 3 Synchrotron X-ray absorption spectroscopy study of the evolution of chlorine during the pyro-hydrolysis of calcium and magnesium chloride waste. *Waste Management*, **2021**, 120, 608-615 8.6
- 2 Spatial distribution of Cr-bearing species on the corroded tube surface characterised by synchrotron X-ray fluorescence (SXRF) mapping and micro-XANES: exposure of tubes in oxy-firing flue gas. *Journal of Materials Science*, **2018**, 53, 11791-11812 4.3
- 1 Quantitative determination of nickel speciation for the presence of free oxide in commercial fluid catalytic cracking catalysts. *Fuel Processing Technology*, **2022**, 230, 107207 7.2